

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number  
**WO 03/080112 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 39/00**

GlaxoSmithKline Plc, Gunnels Wood Road, Stevenage,  
Hertfordshire SG1 2NY (GB).

(21) International Application Number: PCT/GB03/01213

(74) Agent: **WOODS, Geoffrey, Corlett**; J.A. Kemp & Co., 14  
South Square, Gray's Inn, London WC1R 5JJ (GB).

(22) International Filing Date: 19 March 2003 (19.03.2003)

(25) Filing Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,  
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,  
UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:

10/102,622 19 March 2002 (19.03.2002) US  
60/366,058 19 March 2002 (19.03.2002) US

(71) Applicants (*for all designated States except US*): **POW-  
DERJECT RESEARCH LIMITED** [GB/GB]; 4 Robert  
Robinson Avenue, The Oxford Science Park, Oxford OX4  
4GA (GB). **GLAXO GROUP LIMITED** [GB/GB]; Glaxo  
Wellcome House, Berkeley Avenue, Greenford, Middlesex  
UB6 0NN (GB).

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BRAUN, Ralph,**  
**Patrick** [US/US]; 585 Science Drive, Madison, WI 53711  
(US). **THOMSEN, Lindy** [GB/GB]; GlaxoSmithKline  
Plc, Gunnels Wood Road, Stevenage, Hertfordshire  
SG1 2NY (GB). **VAN-WELY, Catherine** [GB/GB];  
GlaxoSmithKline Plc, Gunnels Wood Road, Stevenage,  
Hertfordshire SG1 2NY (GB). **ERTL, Peter** [GB/GB];

**Published:**

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: ADJUVANT

(57) Abstract: The relates to certain adjuvant compositions, and to vaccine and/or nucleic acid immunization strategies employing such compositions. The invention in particular relates to DNA vaccines that are useful in the prophylaxis and treatment of HIV infections, more particularly when administered by particle mediated delivery.



WO 03/080112 A2